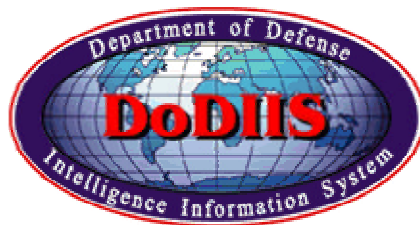# DoDIIS Test Process Recommendation Assessment

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DoDIIS Investment Management Division
22 February 01

Purpose

- **The DoDIIS Test Study conducted in FY00 recommended the adoption of the Option 2 recommendation which was ultimately approved by the DMB.**

- **Subsequent to the DMB vote it became apparent there were several unresolved issues with the Option 2 recommendation.**

- **DoDIIS SIMO/LCM was tasked to assess the Option 2 recommendation and present these findings along with an updated recommendation to the community.**
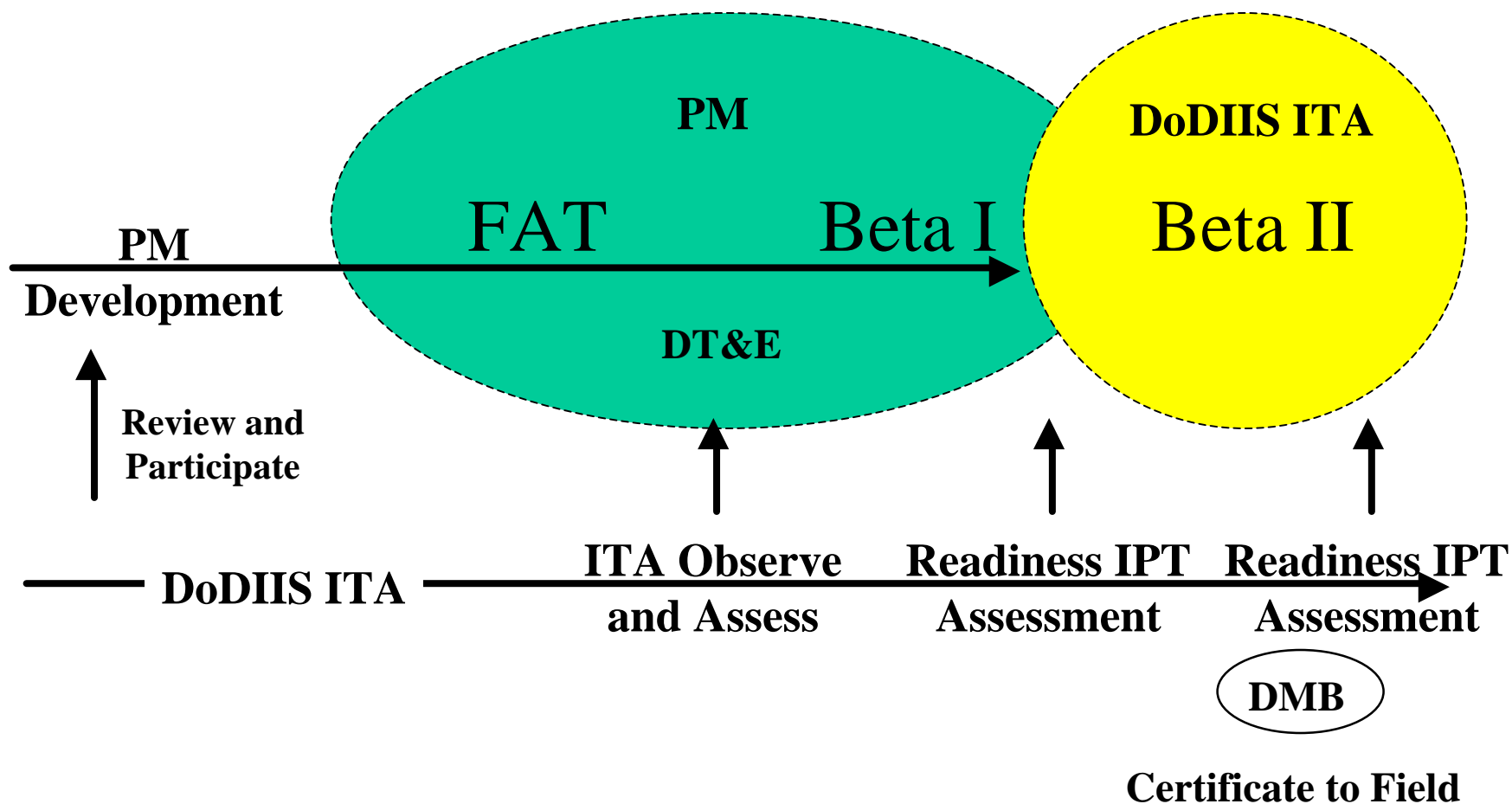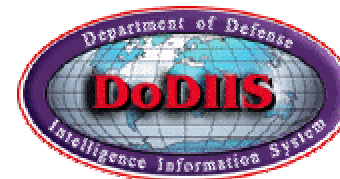
Strategy

- **Assess Option 2 recommendation, identify shortfalls**

- **Assess current test process identify shortfalls**

- **Coordinate w/PMs to resolve their issues**

- **Present updated recommendations to community**

- **Coordinate w/DExA for T & E to resolve funding**

Option 2

PM

DoDIIS ITA

FAT   Beta I   Beta II

PM
Development

DT&E

**Review and
Participate**

DoDIIS ITA   **ITA Observe
and Assess**   **Readiness IPT
Assessment**   **Readiness IPT
Assessment**

DMB

Certificate to Field

Option 2 Costs

	26 Tests	38 Tests
Labor	2,850	3,810
Travel	407	569
Other	75	100
GOV Oversight	154	205
Total	$3,485	4,685

Does not include cost of Beta I for the PM, $50K per test = $1.9M

Testing Study Shortfalls

- **Commands are satisfied w/current testing, requesting addition of formal functional and performance testing.**

- **Premature Vote - Without completion of implementation planning stage, which would have identified inequities in proposals.**

- **Resources not considered throughout effort.**

- **Not adequate PM involvement.**

- **Funding identified to DMB were total sum = $4.86M without breakdown by Service**

- **Funding bill of $4.86M did not include Beta I cost to PM, approx. $50K per test = $1.9M $1.9M+$4.86M=$6.76M**

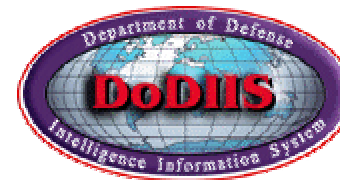# Testing Proposal Shortfalls

- **Treating symptoms of inconsistent/poor project management.**

- **Policies and guidance already exists to govern known problem areas, just not enforced.**

- **Comprehensive program specific functional testing expertise takes years to cultivate and is difficult to maintain.**

- **PMs perceive this as invasive. Not allowing PMs to manage their projects.**

- **Many PMs state they cannot afford Beta I cost.**
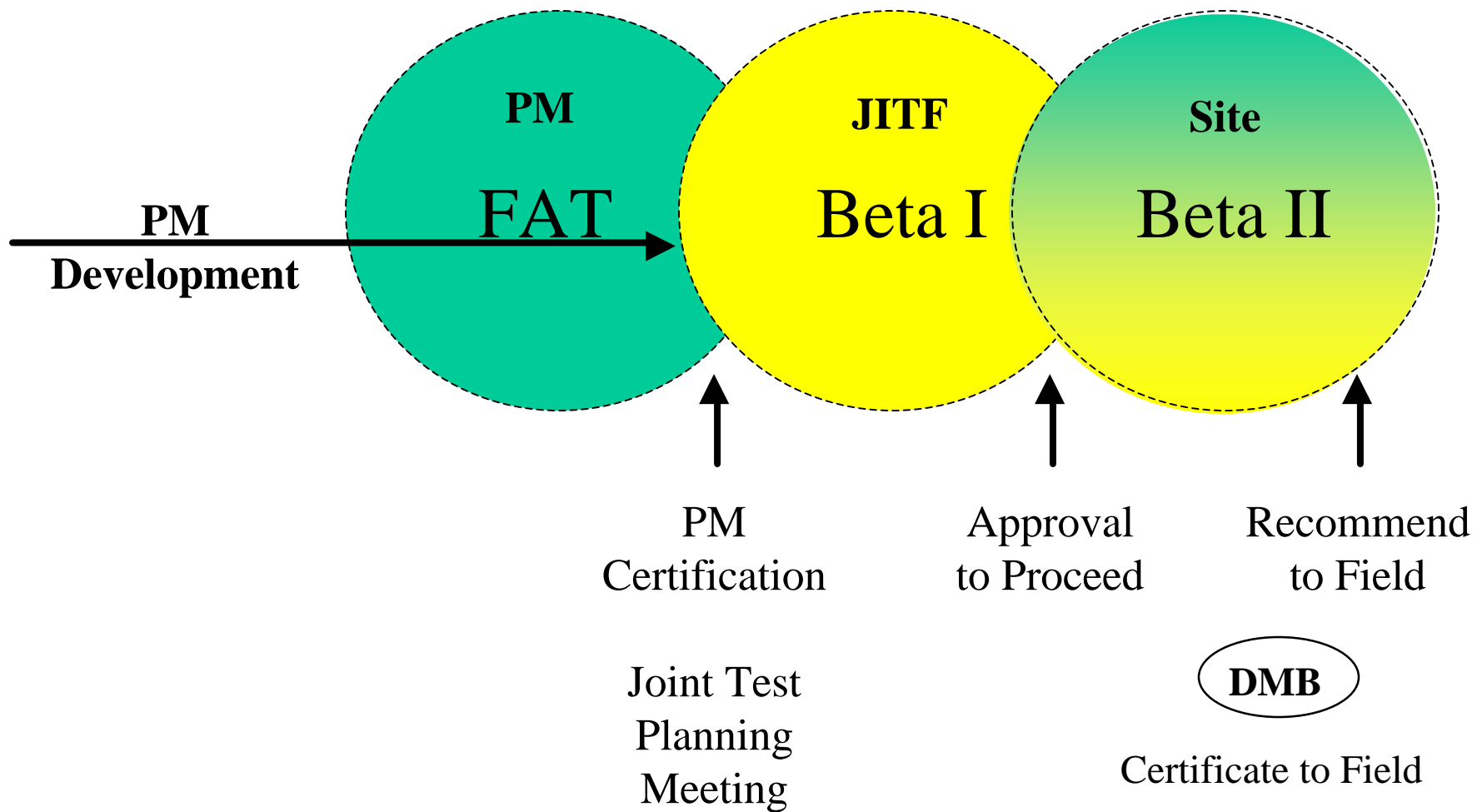
- **Services indicate they can't afford it.**

So we went back to the basics ...

Today

PM
Development → **PM** **FAT** | **JITF** **Beta I** | **Site** **Beta II**

PM
Certification

Joint Test
Planning
Meeting

Approval
to Proceed

Recommend
to Field

DMB

Certificate to Field

Process Shortfalls

- Inadequate "build to" spec guidance/enforcement

- Fundamental lack of MDA oversight

- Lack of PM acquisition management

- Inconsistent Requirements Verification

- Perception that FMs are not performing oversight

- Lack of Independent Formal Functional Testing

Testing Recommendations

- **Exercise existing policies/guidance**

- **Enforce DoDIIS Profile standard**

- **Hold PMs, MDAs and FMs accountable**

- **Provide PMs w/FAT exit criteria, to include:**

  - **Integration**

  - **Installation**

  - **Infrastructure Compliance**

  - **Security**

  - **Interoperability**

  - **Training**

- **PM and MDA must indicate successful accomplishment of all exit criteria and functional testing and requirements from IPAT/FAT**

Testing Recommendations (cont.)

- **Add to PM Requirements:**

  - **Requirements Traceability Matrix**

    - **Macro and Micro**

  - **Requirements validation by cognizant FMs**

  - **Functional Test Plan (detailed)**

  - **Stress User involvement during IPAT/FAT**

  - **Provide early hardware/software dependencies to field**

- **Add FM Verification Memo to ADM requirements**
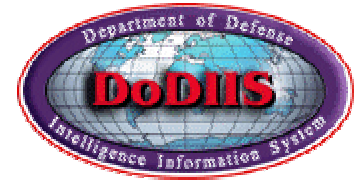
Testing Recommendations (cont.)

- **Enforcement**

  - Continue increased accountability - 100% Disclosure of test results, program status and issues

  - User Surveys (IT/Functional)

  - Regular reporting to Community, FMs and MDAs - visibility into programs (Leadership often unaware of problems)

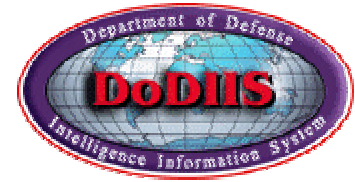 - Affect funding accordingly for GDIP funded programs

Summary

- **Option 2 proposal was not a practical approach and too expensive.**

- **New Proposal**
  - **Recommendations correct the shortfalls identified by the field.**
  - **Accomplishes the spirit of the Option 2 proposal.**
  - **Allows/forces the PMs to do their jobs**
  - **Protects PMs from unreasonable requirement expectations**
  - **Enables FMs to manage their cognizant requirements**
  - **Encourages MDAs to stay in touch with their projects**
  - **Eliminates the additional $1.9M cost**

Decision

If Approved:

- **We will coordinate w/PMs, FMs and MDAs immediately**

- **Will announce test/certification process changes formally at the May 01 TPOC including effectivity date**